Sally, this is your file capy.

PRC Environmental Management, Inc. 233 North Michigan Avenue Suite 1621 OH D 045 205424 Chicago, IL 60601 312-856-8700

PRC

Fax 312-938-0118

January 20, 1995

Mr. Bernie Orenstein Regional Project Officer U.S. Environmental Protection Agency Region 5 7th Floor, Mail Code HRM-7J 77 West Jackson Boulevard Chicago, IL 60604 BEGEIVED JAN 2 0 1995

OFFICE OF RCRA Waste Management Division U.S. EPA. REGION V

Subject:

EPA Contract No. 68-W4-0007

Work Assignment No. R05034

Amendment No. 2, Revised Cost Estimate

Ekco Housewares, Inc., Corrective Action Oversight and Technical Support

Dear Mr. Orenstein:

PRC Environmental Management, Inc. (PRC), is submitting two copies of the revised cost estimate for the above-referenced work assignment. Please forward one copy of the revised cost estimate to Ms. Sally Averill, the U.S. Environmental Protection Agency (EPA) work assignment manager (WAM).

The revised cost estimate has been prepared in accordance with Work Assignment Amendment No. 2, which authorizes work to proceed in option period (OP) 1. The technical approach and all other elements of the approved work plan and subsequent amendments are incorporated into this revised cost estimate by reference.

The proposed technical approach and revised cost estimate have been prepared in accordance with the original EPA statement of work, the requirements of Amendment No. 2, and discussions with the EPA WAM and the PRC project manager, Mr. Jeff Swano. The OP 1 budget is estimated at 502 level-of-effort (LOE) hours and a total cost of \$29,623. The revised cost estimate information is business confidential.

PRC requests that the EPA WAM approve this revised cost estimate by February 6, 1995. This will allow sufficient time for the EPA contracting officer's (CO) review and approval and will not impede the progress of work. Please note that PRC must stop work if the EPA CO does not approve this revised cost estimate by March 3, 1995.

Mr. Bernie Orenstein January 20, 1995 Page 2

Please contact me at (312) 856-8766 or Jeff Swano at (312) 946-6469 if you have any questions or need additional information.

Sincerely,

Edward Schuessler Regional Manager

ES/jmk

Enclosures (2)

cc: Jean Rellins, EPA CO

Allen Pearce, EPA Headquarters Project Officer

Arthur Glazer, PRC Program Manager Doris Bean, PRC Financial Manager Jeff Swano, PRC Project Manager

## EKCO HOUSEWARES, INC. MASSILON, OHIO CORRECTIVE ACTION OVERSIGHT AND TECHNICAL SUPPORT

#### AMENDMENT NO. 2 OPTION PERIOD 1 REVISED COST ESTIMATE

#### Prepared for

## U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Solid Waste Washington, DC 20460

EPA Region : 5

Site : Ekco Housewares, Inc.

Contract No. : 68-W4-0007

Work Assignment No. : R05034

Date Prepared : January 20, 1995 EPA Work Assignment Manager : Sally Averill

Telephone No. : 312/886-4439

Prepared by : PRC Environmental Management, Inc.

PRC Project Manager : Jeff Swano Telephone No. : 312/946-6469

Approved:

Edward Schuessler Regional Manager

#### 1.0 INTRODUCTION

PRC Environmental Management, Inc. (PRC), submitted a work plan for Work Assignment No. R05034, Contract No. 68-W4-0007, to the U.S. Environmental Protection Agency (EPA) on July 19, 1994. In response to Amendment No. 2 to the work assignment, which authorizes work in option period (OP) 1, PRC has prepared this revised cost estimate. The technical approach and all other elements of the approved work plan and subsequent amendments remain unchanged and are incorporated into this revised cost estimate by reference.

Section 2.0 of this revised cost estimate describes the amended statement of work (SOW); Section 3.0 presents the technical approach to completing the amended SOW; and Section 4.0 and Appendix A provide the revised cost estimate.

#### 2.0 STATEMENT OF WORK

The SOW for this work assignment remains the same as the original SOW. All requirements of the original SOW are incorporated into this revised cost estimate by reference.

#### 3.0 TECHNICAL APPROACH FOR AMENDMENT NO. 2 TASKS

The SOW and technical approach for this work assignment remain unchanged. The technical approach for Tasks 2 through 6 is described in the approved work plan dated July 19, 1994.

#### 4.0 REVISED COST ESTIMATE

The revised work assignment cost estimate is presented in five tables in Appendix A. Table 1 summarizes the revised cost estimate. Table 2 presents the proposed staffing plan for OP 1. Tables A-1, A-2, and A-3 respectively detail the revised cost estimate, travel plan, and other direct costs for OP 1. The assumptions made in developing the revised cost estimate are described in Appendix A.

#### APPENDIX A

#### AMENDMENT NO. 2 OPTION PERIOD 1 REVISED COST ESTIMATE

Work Assignment No. R05034

(Seven Sheets)

# AMENDMENT NO. 2 OPTION PERIOD 1 REVISED COST ESTIMATE Work Assignment No. R05034

The work assignment revised cost estimate includes five tables. Table 1 summarizes the work assignment cost through this amendment, Table 2 shows the proposed staffing plan used to prepare the revised cost estimate, Table A-1 details the work assignment revised cost estimate, Table A-2 shows the revised PRC Environmental Management, Inc. (PRC), travel plan, and Table A-3 shows the revised other direct costs (ODC). Task-specific assumptions are described below.

#### Task 1 -- Prepare Revised Cost Estimate

For Task 1, the level-of-effort (LOE) hours include time to prepare the revised cost estimate. PRC estimates that 12 LOE hours will be needed.

#### Task 2 - Perform Field Oversight

For Task 2, the scope of work (SOW) indicates that a total of five oversight trips will be made; none occurred during the base period (BP). Each trip will require one PRC staff person to work two 8-hour days. Using these assumptions, PRC estimates the time spent in the field will be 80 LOE hours. In addition, PRC estimates that 17 LOE hours per trip (for a total of 85 LOE hours) will be required to prepare for the trip, participate in conference calls during the field oversight, prepare trip reports, provide EPA with periodic updates during field activities, and travel. The total time required to complete this task is estimated to be 165 LOE hours.

The SOW indicates that four trips to Akron/Canton, Ohio, should originate from Cincinnati, Ohio, and that one trip should originate from Chicago, Illinois. At the time of this cost estimate's preparation, round-trip airfare was cheaper from Chicago (\$219, midweek, 7-day advance) than from Cincinnati (\$344, midweek, 7-day advance). As a result, all trips are planned to originate from Chicago. This was also the case for the BP; however, only three trips were budgeted in the approved work plan because only three were expected to occur during the BP. Because no travel occurred during the BP, the OP 1 travel estimate is higher.

ODCs associated with field oversight include \$1.80 per hour of field time for Level D field equipment. Level D field equipment includes personal protective equipment (PPE) such as Tyvek suits, rubber overboots, hardhats, goggles, and gloves. ODCs listed in Table A-3 as equipment costs include field logbooks, single-use cameras, and film development.

#### Task 3 -- Review Draft and Final Corrective Measures Implementation (CMI) Work Plans

For Task 3, the LOE hours estimated for this task are identical to those presented in the approved work plan because no activity occurred on this task during the BP. The total time required to complete this task is estimated to be 100 LOE hours.

#### CONFIDENTIAL BUSINESS INFORMATION

Contract No. 68-W4-0007 Work Assignment No. R05034 Amendment No. 2 January 20, 1995

#### Task 4 -- Review Draft and Final CMI Reports

For Task 4, the LOE hours estimated for this task are identical to those presented in the approved work plan because no activity occurred on this task during the BP. The total time required to complete this task is estimated to be 75 LOE hours.

#### Task 5 -- Review Interim Measures (IM) Work Plans and Reports

For Task 5, PRC assumes that two IM work plans and one draft IM report will be reviewed during OP 1; one draft IM report and one final IM report were reviewed during the BP. Based on the LOE hours expended on review of the draft and final IM reports, PRC estimates that 50 LOE hours will be required for each OP 1 document review. Thus, the OP 1 estimate is higher than the BP estimate. The total time required to complete this task is estimated to be 150 LOE hours.

#### Task 6 -- Conduct Project Close-out

PRC does not anticipate completion of this work assignment before the end of OP 1 on September 30, 1996; therefore, no project close-out costs have been estimated.

#### CONFIDENTIAL BUSINESS INFORMATION

TABLE 1

#### REVISED COST ESTIMATE Work Assignment No. R05034 (Effective Date: December 23, 1994)

HOURS	ESTIMATED BP COST <sup>a</sup>	AMENDMENT NO. 2	TOTAL
P-Level			
P4	47	185	232
P3	4	39	43
P2	31	199	230
P1	1	73	74
T3	0	6	6
T2	1	0	1
<u>T1</u>	0	0	0
Total Professional Hours	84.0	502	586.0
Total Clerical Hours	3.0	49	52.0
Total Hours	<u>87.0</u>	551	638.0
DOLLARS			
Direct Professional Labor	\$2,128	\$12,673	\$14,801
Direct Clerical Labor	45	606	651
Travel	0	2,405	2,405
PRC ODCs	134	1,543	1,677
Subcontractor Costs	0	.0	0
Indirect Costs	1,878	11,650	13,528
Subtotal Cost	<u>\$4,185</u>	\$28,877	\$33,062
Base Fee	<u>\$118</u>	<u>\$746</u>	<u>\$864</u>
Total Cost	<u>\$4,303</u>	\$29,623	<u>\$33,926</u>

<sup>&</sup>lt;sup>a</sup> Estimated BP costs are costs invoiced through December 30, 1994. Final BP costs will be provided to EPA under separate cover.

#### CONFIDENTIAL BUSINESS INFORMATION

b The total work assignment cost includes the estimated BP costs and the costs estimated for this amendment.

#### TABLE A-1

#### WORK ASSIGNMENT REVISED COST ESTIMATE

SITE NAME: Ekco Housewares, Inc.

#### WORK ASSIGNMENT NO. R05034

TASK NAME	Prepare Revised Cost Est.	Perform Field Oversight	Review CMI Work Plans	Review CMI Reports	Review IM Work Plans and Reports	Conduct Project Close—out					
TASK NUMBER	TASK 1	TASK 2	TASK 3	TASK 4	TASK 5	TASK 6	TASK 7	TASK 8	TASK 9	TASK 10	TOTAL
Labor Cost	HR	HR	HR	HR	HR	HR	HR	HR	HR	HR	<u> </u>
PRC LABOR ESTIMATE											
P4	0	29	28	18	110	0	0	0	0	0	185
P3	0	17	6	6	10	0	0	0	0	0	39
P2	12	81	40	36	30	0	0	0	0	0	199
P1	0	32	26	15	0	0	0	0	0	0	73
Т3	0	6	0	0	0	0	0	0	0	0	6
T2	0	0	0	0	0	. 0	0	0	0	0	
T1	0	0	0	0	0	0	0	0	0	0	C
Clerical	1	20	8	8	12	0	0	0	0	0	49
TEAM SUB LABOR ESTIMATE		· 		<b>,</b>							
Professional Hours											
Clerical Hours											
Total Professional Hours	12	165	100	75	150	0	0	0	0	0	502
Total Clerical Hours	1	20	8	8	12	0	0	0	0	0	49
Total PRC Professional Labor Cost	\$220	\$3,514	\$2,302	\$1,695	\$4,943	\$0	\$0	\$0	\$0	\$0	\$12,673
Total PRC Clerical Labor Cost	\$12	\$247	\$99	\$99	\$148	\$0	\$0	\$0	\$0	\$0	\$606
1. Total PRC Labor Cost	\$233	\$3,761	\$2,401	\$1,794	\$5,091	\$0	\$0	\$0	\$0	\$0	\$13,279
2. Total PRC Travel Cost (1)	\$233	\$2,405	\$0	\$0		\$0	\$0	\$0	\$0	\$0	\$2,405
3. Total PRC ODCs (2)	\$50	\$989	\$149	\$177	\$179	\$0	\$0	\$0	\$0	\$0	\$1,543
4. Team Sub Costs	450	4000	<b>\$140</b>	7177	<del>\$170</del>			<del></del>			\$0
5. Non-Team Sub Cost (3)			<u>-</u> -								\$0
6. Indirect Costs (4)	\$203	\$3,427	\$2,075	\$1,554	\$4,392	\$0	\$0	\$0	\$0	\$0	\$11,650
o. musect Costs (4)	#203	Ψ0,721	42,073	¥1,55 <del>4</del>	¥1,582	ΨΟ]	401			- 40	<b>411,000</b>
Subtotal Cost	\$485	\$10,582	\$4,624	\$3,524	\$9,662	\$0	\$0	\$0	\$0	\$0	\$28,877
Base Fee	\$18	\$245	\$149	\$111	\$223	\$0	\$0	\$0	\$0	\$0	\$746
TOTAL COST	\$503	\$10,827	\$4,773	\$3,636	\$9,884	\$0	\$0	\$0	\$0	\$0	\$29,623

#### Notes:

- (1) See Table A-2 for PRC travel costs.
   (2) See Table A-3 for PRC ODCs.
   (3) Non-team subcontractors include expert witnesses, expert consultants, surveying and drilling firms, and so on.
   (4) Indirect costs include fringe benefit, overhead, and general administration costs.

#### CONFIDENTIAL BUSINESS INFORMATION

#### TABLE 2 PROPOSED STAFFING PLAN

STAFF	P-LEVEL	Prepare Revised Coet Est. TASK 1 HR	Perform Field Oversight TASK 2 HR	Review CMI Work Plans TASK 3 HR	Review CMI Reports TASK 4 HR	Review IM Work Plans and Reports TASK 5 HR	Conduct Project Close—out TASK 6 HR	TASK 7	TASK 8	TASK 9	TASK 10 HR	TOTAL
Sr. Engineer or Scientist	P4	nn ·	12		8	25	140	. EHY	nn	787	nn	5:
Manoj Mishra	P4	<del>                                     </del>	17	20	10	85						132
Mario Misira	P4			20	10			· · · · · · · · · · · · · · · · · · ·				
	P4						-					··-·
TOTAL P4 HOURS	P4	0	29	28	18	110	0	0	0	0	0	18
Environmental Scientist	P3		17	6	6	10						31
	P3											
	Р3											(
	Р3											
TOTAL P3 HOURS		0	17	6	6	10	0	0	0	0	0	3
<del>_</del>						·	1	· ·		r	<del> </del>	
Jeff Swano	P2	8	55	34	34	12						14
Support Staff	P2	2	10	2	2		<del> </del>					2
Environmental Scientist	P2	2	16	4		8						3
	P2											
TOTAL P2 HOURS		12	81	40	36	30	0	0	0	0	0	19
Jennifer Force	P1		32	26	15	Γ						7
	P1											
	P1											
	P1											
TOTAL P1 HOURS		0	32	26	15	0	0	0	0	0	0	7
Co-op Student	Т3	<del></del>	6			<u> </u>	1					
об оролиция	ТЗ		-									
TOTAL T3 HOURS		0	6	0	0	0	0	0	0	0	0	
				· · · · · · · · · · · · · · · · · · ·		1	· · · · · · · · · · · · · · · · · · ·				1	
	T2					<b></b>	<u> </u>					
	T2											<u>.</u>
TOTAL T2 HOURS		0	0	0	0	0	0	0	0	0	0	<del></del>
TOTAL LOE HOL	URS	12	165	100	75	150	0	0	0	0	0	50
TOTAL CLERICAL		1	20	8	8	12						4
TOTAL HOUR	·	13	185	108	83	162	0	0	0	0	0	55

		TABLE PRC TRA			No.of Days	Round Trip		Ground	
Origin/Destination	Purpose	Task No.	No.of People	No.of Trips Per Person	Per Person Per Trip	Airfare (\$/trip/person)	Per Diem (\$/day/person)	Trans/Misc (\$/day)	Est. Tota Cost (\$)
			1						
Total Travel For Task No. 1		<u> </u>	1					· · · · · · · · · · · · · · · · · · ·	<u>&amp;</u>
Chicago, IL/Canton, OH	Field Oversight		2 1 2	5	2	\$219	\$76	\$55	\$2,
Total Travel For Task No. 2			2 	·	·.·	<u> </u>	<u> 1917 JAKK</u>	<u> </u>	\$2,
			3 3 3		_				
Total Travel For Task No. 3						<u> Patrije k</u>			
			4 4						
Total Travel For Task No. 4	<u> </u>		<u> </u>	<u>: 823 189</u>	L. Sylver	·	<u> 1, 5, 5, 80 (4, 13)</u>	<u>ari de roma.</u>	
			5 5						
Total Travel For Task No. 5	<u> </u>		5 	.1 **.			11.		
			6 6						
Total Travel For Task No. 6	<u> </u>		6 		<u> </u>	<u> </u>	<u> </u>		
			7						
			7	uovija krijelitika	an shekar	la e .	ار دو <b>ن</b> و در	e ver	
Total Travel For Task No. 7									
Total Travel For Task No. 7	<u> </u>		8			i: /		·	
			8 8 8			·			
Total Travel For Task No. 7  Total Travel For Task No. 8			8 8 8						
		<u> </u>	8 8 8 8			×			· · · · ·
		<u> </u>	9						\$2

### TABLE A-3 OTHER DIRECT COSTS

		Prepare F	TASK 1 Prepare Revised Cost Estimate		TASK 2 Perform Field Oversight		TASK 3 Review CMI Work Plans		K 4 w CMi lorts	TASK 5 Review IM Work Plans and Reports	
Item	em Unit Cost	No. of Units	Cost	No. of Units	Cost	No. of Units	Cost	No. of Units	Cost	No. of Units	Cost
Freight	\$10.00		\$0	5	\$50	2	\$20	1	\$10	5	\$50
Computer	\$3.60	10	\$36	38	\$137	15	\$54	35	\$126	15	\$54
Telephone	\$5.00	2	\$10		\$125	10	\$50	5	\$25	10	\$50
Copying	\$0.05	70	\$4	360	\$18	500	\$25	320	\$16	500	\$25
Shipping	\$75.00		\$0	5	\$375		\$0		\$0		\$0
Safety	\$1.80		. \$0	[ 80 <u>[</u>	\$144	1	\$0	Ţ	\$0		\$0
Equipment	\$28.00		\$0	5	\$140	į	\$0	1	\$0		\$0
Laboratory			\$0		\$0	i	\$0		\$0		\$0
Other			\$0		\$0		\$0		\$0		\$0
	Total		\$50		\$989		\$149		\$177		\$179

		TAS Conduc Close	t Project	TA	SK7	TAS	K 8	TA	SK 9	TASI	(10
Item	Unit Cost	No. of Units	Cost	No. of Units	Cost	No. of Units	Cost	No. of Units	Cost	No. of Units	Cost
Freight	\$10.00		\$0		\$0		\$0		\$0		\$0
Computer	\$3.60		\$0		\$0		\$0		\$0		\$0
Telephone	\$5.00	1	\$0		\$0		\$0		\$0		\$0
Copying	\$0.05	1	\$0		\$0		\$0		\$0		\$0
Shipping	\$75.00		\$0		\$0		\$0		\$0		\$0
Safety	\$1.80		\$0		\$0		\$0		\$0		\$0
Equipment			\$0		\$0		\$0	:	\$0		\$0
Laboratory			\$0		\$0		\$0		\$0		\$0
Other			\$0		\$0		\$0		\$0		\$0
	Total		\$0		\$0		\$0		\$0		\$0







September 30, 1991

Ms. Sally Averill
United States Environmental Protection Agency
230 South Dearborn Street
Chicago, Illinois 60604

Re:

TES X, R05031 - EKCO Housewares RFI Field Activities Report: 9/17/91 - 9/19/91

Dear Ms. Averill:

Enclosed please find one copy of the field notes for the RFI/CMS oversight at the ECKO Housewares site in Massillion, Ohio for September 17 through September 19, 1991.

If you have any questions, please feel free to contact me at (312) 553-1400.

Sincerely,

METCALF & EDDY, INC

Thomas Lentzen

Regional Project Manager

Enclosure

cc:

Fred Norling

File



September 27, 1991

Ms. Sally Averill U.S. Environmental Protection Agency Region V (5HR-12) 230 South Dearborn Street Chicago, Illinois 60604

RE: TES X Work Assignment NO. RO5031 EKCO Housewares RFI/CMS Oversite

Field Activities Report: 9-17-91 through 9-19-91

#### Dear Ms. Averill:

Enclosed is one copy of the field notes for the RFI/CMS oversight at the EKCO Housewares Site in Massillon, Ohio for the three day period of September 17, 1991 through September 19, 1991.

Personnel on-site during this three day period were Tom Cornuet, Dave Caruns, and Harold Byer of Roy F. Weston, Alan Hay, Dave Screcangost and Bill Young of Bowser Morner, and Jim Strayton and Steve Hulett of Metcalf & Eddy.

Activities by EKCO during the three day period consisted of ground water sampling, set-up for pump testing, and soil borings and sampling.

Per your instructions Metcalf & Eddy focused oversite activities on soil boring and sampling. Therefore, ground water sampling and pump test preparation were not observed.

All borings were completed using a Detrich D-25 skid rig, 3 1/4 hollow stem auger, and a two inch split-spoon sampler. All borings were sampled continuously to depth using the split-spoon and were screened for contamination using a HNu photo ionization detector. All analytical samples collected were sent to a laboratory for analysis of volatile organic compounds only.

On September 17, 1991, Bowser Morner and Weston personnel completed soil boring numbers SB-1 through SB-6. See Figure 1, for approximate locations. Soil boring numbers SB-1, SB-2, and SB-4 were completed to 12 feet, as specified in the RMI/CMS Work Plan. Soil boring numbers SB-3, SB-5 and SB-6 were completed to 7 feet, 6 feet, and 8 feet, respectively. Soil boring SB-3 was terminated due to auger refusal, and SB-5 and SB-6 were terminated upon encountering water.

On September 18, 1991, soil boring numbers SB-9, SB-10, and SB-11 were completed within the EKCO Housewares building. Total depth for each boring

Affiliates of Air & Water Technologies Corporation

was 12 feet, 10 feet, and 12 feet respectively. Soil boring SB-10 was terminated due to auger refusal.

On September 19, 1991, soil borings SB-7 and SB-8 were completed to a depth of 8 feet and 12 feet, respectively. Soil boring SB-8 was terminated due to auger refusal. All borings were backfilled with cuttings and grouted to the surface.

The highest levels of contamination detected with the HNu during bore hole screening occurred at soil boring locations SB-6, and SB-10. Detection levels of 20 + ppm were detected from 6 to 8 feet below grade in soil boring number SB-6. Soil boring SB-6 is located approximately 40 feet northwest of a large above ground storage tank containing TCE. Although the tank is presently surrounded by a concrete containment wall, the contamination may be due to past spillage. Detection levels of 20 + ppm were also detected from 8 to 10 feet below grade in soil boring SB-10. Soil boring SB-10 is located within the EKCO Housewares building. Weston personnel stated that the area surrounding soil boring SB-10 had been the site of a degreasing operation. All other boring locations showed relatively little contamination during screening with the HNu. Please refer to attached Table 1 for boring number, boring depth, sampling interval, and highest contamination levels detected within each boring.

The EKCO Housewares RFI/CMS Work Plan proposed 13 soil borings. Weston personnel were unable to complete two of the borings. Figure 1 shows the location of these uncompleted borings. Boring number UC-SC-A was to be located on the southwest side of the EKCO Housewares building. The boring was located directly under low powerlines, therefore completion of UC-SB-A would have jeopardized the health and safety of personnel on-site. Proposed soil boring UC-SB-B was to be located within the EKCO Housewares building, west of soil borings SB-10 and SB-9. Boring numbers SB-10 and SB-9 were both completed in a very narrow hall that did not leave room to install UC-SB-B.

The sampling and field procedures employed by the PRP's Consultant, as observed by Metcalf & Eddy, Inc., were consistent with U.S. EPA approved plans and protocols. If you have any questions or comments, please call me at (614) 890-5501.

Sincerely,

Metcalf & Eddy, Inc.

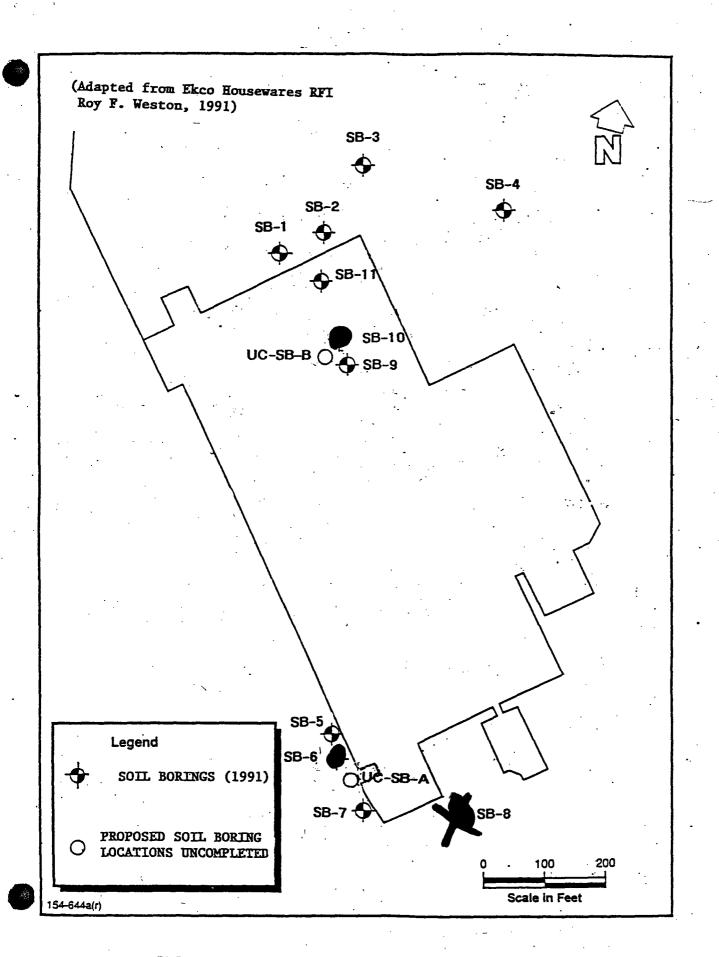
Steve A. Hulett

Contractor Project Manager

SAH/sac

Attachments

cc: TES X File



RFI SOIL BORING LOCATIONS (SEPTEMBER 1991)

TABLE 1
ECKO HOUSEWARES RFI SOIL BORINGS

(September 1991)

Date	Boring No.	Total Depth	VOA Sample Interval	Highest HNu Reading
9/17/91	SB-1	12 feet	2-4', 6-8', 10-12'	5.4 ppm 8-10'
	SB-2	12 feet	2-4', 6-8', 10-12'	0 ppm
	SB-3	7 feet	2-4', 6-8'	0 ppm
	SB-4	12 feet	2-4', 6-8', 10-12'	0.5 ppm 0-2'
	SB-5	6 feet	2-4', 4-6'	3.0 ppm 4-6'
	SB-6	8 feet	6-8'	20+ ppm 6-8'
9/18/91	SB-9	12 feet	2-4', 6-8', 10-12'	0.0 ppm
	SB-10	10 feet	0-2', 6-8', 8-10'	20+ ppm 8-10'
	SB-11	12 feet	2-4' 6-8', 10-12'	0.2 ppm 2-4', 8-10'
9/19/91	SB-7	6.3 feet	2-4', 6-8'	0.2 ppm 0-2'
	SB-8	12 feet	2-4', 6-8', 10-12'	0.0 ppm



Roadway of any Width. Side Slopes 1½ to 1. In the figure below: opposite 7 under "Cut or Fill" and under -3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



	b=	0	1.1	.2	.3	.4	.5	.6	.7	.8	.9	Cut of
	Cut or			Distan	ce out	rom Si	de or Si	noulder	Stake			3.
	0	0.0	0.2	0.3	0.5	0.6	0.8	0.9	1.1	1.2	1,4	0
		1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.7	2.9	1 2
	1 2 3	3.0	3.2	3.3	3.5	3.6	3.8	3.9	4.1	4.2	4.4	2
	3	4.5	4.7	4.8	5.0	5.1	5.3	5.4	5.6	5.7	5.9	3
_	4	6.0	6.2	6.3	6.5	6.6	6.8	6.9	7.1	7.2	7.4	4
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met call + Eddy Inc. 2800 Corporate Exch. Lle. Columbus 6/4 4323/ (6/4) - 890-5501

**GP** 

"Rite in the Rain"

The paper in this book has been treated by an exclusive chemical waterproofing process. Wet or dry, even the hardest pencil will produce a clean, sharp mark.

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July 16, 1991

Ms. Sally Averill
United States Environmental Protection Agency
230 South Dearborn Street
Chicago, Illinois 60604

Re:

TES X, R05031 - EKCO Housewares RFI Field Activities Summary

Dear Ms. Averill:

Enclosed please find one copy of the field notes from June 17 through June 27, 1991 and July 9 through July 10, 1991 oversight activities at the EKCO Housewares site.

If you have any questions, please feel free to contact me at (312) 553-1400.

Sincerely,

METCALF & EDDY, INC

Thomas Lentzen

Regional Project Manager

Enclosure

cc:

Fred Norling

File



July 11, 1991

Ms. Sally Averill U.S. EPA, Region V 230 South Dearborn Street Chicago, Illinois 60604

Re: TES X Work Assignment No. R05031 EKCO Housewares RFI Oversight

Field Activities Summary: 6/25-6/27/91 & 7/9-7/10/91

Dear Ms. Averill:

Enclosed is one copy of the field notes for the field oversight of activities conducted at the EKCO Housewares Site in Massillon, Ohio on the above indicated dates. In addition to myself, personnel on site included Pat Doran, David Cairns, and Harold Byer, Jr. of Roy F. Weston, Inc., and Dave Schrecengost and William Kessler of Bowser Morner.

Activities observed included the cable tool drilling of Interface W I-11 and the cable tool drilling and installation of Rock Well R-12. located on the Carter Lumber property and Well R-12 is located on the Price Brothers property. David Cairns of Weston informed me that Well I-11 was set Well R-12 has a total depth of 108.5 feet. It has a twenty-foot screen with an installed sand pack to 85.5 feet. A three-foot bentonite seal is above the sand pack and a neat grout mixture is above the bentonite seal. Bedrock was encountered at 65'. The 8-inch casing was left in the hole to ensure that the upper zone of water is cased off.

Planned activities for the balance of the month of July are installation of the remaining wells on the Price Brothers property. Development of the wells is also planned. To date, none of the wells have been developed.

If you have any questions regarding this report, please call me or James Strayton at (614) 890-5501.

Sincerely,

Andrew Campbell

Environmental Scientist

Anche Cyhell

Enclosures

cc: T. Lentzen w/enclosures J. Strayton w/enclosures TES X File w/enclosures

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June 27, 1991

Ms. Sally Averill United States Environmental Protection Agency 230 South Dearborn Street Chicago, Illinois 60604

Re:

TES X, R05031 - EKCO Housewares RFI

**Field Activities Summary** 

Dear Ms. Averill:

Enclosed please find one copy of the field notes from June 17 through June 20, 1991 oversight activities at the EKCO Housewares site.

If you have any questions, please feel free to contact me at (312) 427-7433.

Sincerely,

METCALF & EDDY, INC

Denise Murk

**Environmental Scientist** 

Enclosure

cc:

Fred Norling

File



June 24, 1991

Ms. Sally Averill U.S. EPA, Region V 230 South Dearborn Street Chicago, Illinois 60604

Re:

TES X Work Assignment No. R05031

**EKCO Housewares RFI** 

Field Activities Summary: 6/17 - 6/20/91

Dear Ms. Averill:

Enclosed is one copy of the field notes for the field oversight of activities conducted at the EKCO Housewares site in Massillon, Ohio. The dates of oversight were 6/17 - 6/20/91. In addition to myself, personnel on-site included Thomas Cornuet and Pat Doran of Roy F. Weston, Inc., and Dave Schrecengost and William Kessler of Bowser Morner.

Activities observed were cable tool drilling for Interface Well I-13 and installation of Well I-13. Well I-13 was originally numbered I-16. The number was changed as a result of a reduction in the number of wells to be installed in this area. Total depth of Well I-13 is 151 feet 3 inches. The well is screened from 151 feet 3 inches to 141 feet 3 inches. A sand pack was installed up to 137 feet. A 2-foot bentonite seal was installed at 137 feet and the natural sand and gravel formation was allowed to collapse around the well up to 108 feet. The remainder of the hole was filled with a neat grout mixture.

Work is scheduled to resume at the site on 6/24/91. Per our telephone conversation on 6/18/91, Metcalf & Eddy will provide oversight on 6/25 - 6/27/91.

If you have any questions regarding this report, please call me or Jim Strayton at (614) 890-5501

Sincerely,

Andrew Campbell

Ander Cophell

AC/sac

Enclosure

cc:

T.Lentzen, w/enclosure J.Strayton, w/enclosure TES X File, w/enclosure



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June 19, 1991

Ms. Sally Averill
United States Environmental Protection Agency
230 South Dearborn Street
Chicago, Illinois 60604

Re:

**TES X, R05031 - EKCO Housewares** Field Activities Summary

Dear Ms. Averill:

Enclosed please find one copy of the field notes from field oversight activities conducted June 4-7, 1991 and June 11-12, 1991.

If you have any questions, please feel free to contact me at (312) 427-7433.

Sincerely,

METCALF & EDDY, INC

Denise Murk

**Environmental Scientist** 

Enclosure

cc:

Fred Norling

File



June 14, 1991

Ms. Sally Averill
U.S. EPA, Region V
230 South Dearborn Street
Chicago, Illinois 60604

Re: TES X Work Assignment No. R05031 EKCO Housewares RFI Oversight Field Activities Summary 6/4-6/7/91 & 6/11-6/12/91

Dear Ms. Averill:

Enclosed is one copy of the field notes for the field oversight of activities conducted at the EKCO Housewares Site in Massillon, Ohio. The dates of oversight were 6/4-6/7/91 and 6/11-6/12/91. Personnel on-site were Thomas Cornuet and Harold Byers, Jr. of Roy F Weston, Inc., Dave Schrecengost, William Peterson, and William Kessler of Bowser Morner and Andrew Campbell of Metcalf & Eddy.

Activities observed were cable tool drilling for Interface Well I-9 and Interface Well I-13. Well I-9 was installed during this period, however, the installation was not observed. Information obtained from Thomas Cornuet of Weston showed that total depth of the well is 173 feet. This depth was considerably deeper than Weston anticipated prior to installation. is screened from 161.5 feet to 171.5 feet. A sand pack was installed from 150 feet to 161.5 feet with a natural sand pack from 130 feet to 150 feet. amount of sand pack is inconsistent with the monitor well construction description contained in Section 4.1.1.4 of the RFI/CMS Work Plan dated May This section specifies a 2-4 foot sand pack above the top of the A bentonite seal was installed from 120 feet to 130 feet and the remainder of the hole was filled with a neat grout mixture. A 2-foot bentonite seal is specified in Section 4.1.1.4 of the RFI/CMS Work Plan. of 6/10/91, depth to water, taken from the top of the casing was 13.6 feet. The drilling at I-13 had reached a depth of 80 feet when operators ceased for the week on 6/12/91.

Due to an equipment (pump) problem, developement of Well I-9 was not completed as planned. A new pump will be available next week and the well will be developed at that time.

Per our telephone conversation, Metcalf & Eddy will provide oversight beginning again on Monday June 17, 1991.



If you have any questions regarding this report, please call me or Jim Strayton at (614) 890-5501.

Sincerely,

Andrew Campbell

Environmental Scientist

AC/sac Enclosures

cc: J. Strayton w/encl. T. Lentzen w/encl.

TES X File w/encl.

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	John Wasel I was self of the color of the co	-BIM SI From 25- If will 5 set well - depoles f ells in speen - ery Stiff at the speen - 16 30-32 sp sunly and stiff well Color 8	from 25-27  I will go to set well the depoles from a ells in some speen - Sand/ ery Stiff gran  at the end speen - 162 bl  30-32 splits sud/gravel wid stiff wet - ora Culay small	-BIM Sport spee from 25-27 - Mi I will go to 180 set well - Mis con deposhs from OUS ells in Some and speen - Sand/grovel ery Stiff gravel/ell at the end of the speen - 162 blows 30-32 split spoon sunl/gravel with pe stiff well - orang/brow Cular Sand	-BIM Split speening Prom 25-27' - Mis  I will go to 180  Set well - this corresponds  depoths from Ous  ells in Some area  speen - Sand/grovel  ery Stiff granel/ely  at the end of the  speen - 162 blows  Swy/gravel with pebbles  stiff well - overy/brown	Plan split speening 1/35  Prom 25-27'-this grand  Will go to 180' we  Set well this corresponds  depoths from OUS  ells in Some area  speen - Sand/ground /215  ery Stiff grand/ely  at the end of the 1300  speen - 161 blows  speen - 161 blows  sud/grand with pubbles  stiff well orange/brown	- Blm split speenup 1/35 W Prom 25-27 - Mis of 8'  Will so to 180' will the set well - this corresponds  depths from OUS 1200 Brish  ells in Some area  speen - Sandfarovel /215 Line ery Stiff grane/ely cut the end of the 1300 Tor speen - 162 blows  Speen - 162 blows  Sunfgravel with pebbles  Stiff well orange/brown 38  Stiff well orange/brown 38	Blm split speerup 1/35 Welder  Prom 25'27' - Mis of 8" Ca.  U will go to 180' will take  Set well - this corresponds  depths from OUS 1200 Briving a  ells in some anew  speen - Sand grovel 1215 Linch  ery Stiff grane / Ely  at the end of the 1300 Tooling  speen - 161 blows  Speen - 161 blows  Speen - 161 blows  Sund gravel with pebbles  Stiff well orange brown  35' +  Stiff well orange brown  35'	Blm split speening 1135 Welder new from 25'27' - Mis of 8" Casing  I will so to 180' will take it to set well - This corresponds depoles from OUS 1200 Briving casen  ells in some anew speen - Sandagrovel 1215 Lunch  ery shift gravel/elay at the end of the 1300 Tooling carrie speen - 161 blows  Speen - 161 blows  Speen - 161 blows  Sudjagnard with pelibles  Shift well - overpy/brown  Shift well - overpy/brown  Shift well - overpy/brown	Blow spolit spectrum 1135 welder neet professor 25-27 - Mis of 8" casing on I will go to 180 will take it to 39" set will - Mis corresponds 1200 briving casing ells in some area specon - Sandaround 1215 Lunch ery shift gravel / Ely 1300 Toeling carbons a specon - 161 blows well 1-13  30-32 split spoon 1345 Cising dawn to shift well with metables 35" + ted to shift well - orangiforour split spoon 35-37 -:

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1/11/91 6/11/91 65 Split spece from 45-97 1400 Meson drury cesury Soul gray clay with gravel/yellbles 1500 (csing & well down 1615 Wester B/M go to to = 37/ 39-41 split spoon - sand/gery ABM ca to get wire + pipe for set puny clay -very dry of Some grave - will that well be used to add the next 8" cay develop I-9 temorrow pipe on now-the have has been sene 1715 Back to Sito light rain - starting Casy down to 29 ff. hear thumbs tok ted up down 1600 Cerry down to 45 And lipher 6/4/21

66	6	July	·					61	11/9/		6
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68 6/12/91 69	
0100 Arrival Nece 12 cool 0800 Split spoon from	
might rain	
Personnel 50840 Cosing loun to = 59' Split spoon from	
A. Carphell - MER. 59-61'  1. Cornuet - Wosten Sandfgrund wy gray, dry	
U. Schrecensost-Bowser Momer Clay at bottom of W. Kessler-Bowser Marner Spoon 12" recovery	
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May 1, 1991

Ms. Sally Averill U.S. Environmental Protection Agency 230 S. Dearborn Street Chicago, Illinois 60604

Re:

TES X, R05031 - EKCO Housewares

Field Activities Report for Oversight of Packer

Dear Sally:

Please find enclosed a summary of the field activities conducted during the period of 4/15/91 thru 4/17/91. Activities during this period included geophysical logging of bedrock wells R-1, R-2 and R-4 and packer testing well R-1 at EKCO Housewares.

A copy of the field log is attached for your use. Please feel free to contact me at (312)427-8752, or Jim Strayton at (614)890-5501 if you have any questions.

Sincerely,

METCALF & EDDY, INC.

Thomas Junjun

Thomas Lentzen

Regional Project Manager

cc:

F. Norling

**Document Control** 



Ms. Sally Averill
U.S. Environmental Protection Agency
Region V, 5HR-12
230 South Dearborn Street
Chicago, Illinois 60604

Subject: Field Activities Report for Oversight of Packer

Testing at EKCO Housewares; TES X Work

Assignment R05031

Dear Sally:

The enclosed submittal is a summary of the field activities conducted during the period of 4/15/91 thru 4/17/91. Activities during this period included geophysical logging of bedrock wells R-1, R-2, and R-4 and packer testing well R-1 at EKCO Housewares.

All activities conducted by the PRP contractor were according to approved plans and procedures. However, M&E has some concerns about the sample analysis and packer test data from Zone 3 in well R-1. During the initial stabilization period after the packers were inflated, the water level was fluctuating by at least 3 feet. It was almost a cyclic change in the water level with a periodicity of about two minutes. M&E and Weston's personnel thought a pump may have been cycling on and off. However, based on the problems with the packers' vent system we had on Wednesday, which gave similar fluctuations in the water level but on a greater scale, the data gathered during this test may be inaccurate because of a faulty packer system. recommended that Weston consider m if time permitted. The second concern M&E has is that the samples collected for analysis from this zone will have erroneously low levels of VOC's. This is because the yield from this zone was about 1 gpm, and the pump was designed to pump at 24 This resulted in the pump heating the water up to about 10 degrees Celsius above its true temperature. This change in temperature may have resulted in the volatilization of some of the contaminants. Therefore, the sample analyses from this zone should be considered qualitative at best.

A copy of the field log is attached for your use. Please call me if you have any questions or comments.

Sincerely,

James P. Strayton

Contractor Project Manager

cc: TES X File

4/15/91 MONDAY CARTA Dolly In 15 Com 0730hns: To MASSILLO CTERPLY UN COMMENTED 16 10 Cor. 1000 hrs: Dr-5/k. plant. Weston John one will 100hrs liles - pid opin partofile-1 have get will call sally confrom the short date Moreto R- 2 to 2 Personnel ON 3, Ks SMAYTON - MIE 145 hrs. PAUL LANDRY 1 such R-11 Tom Convet And remove John & Cofred - BOATH DAM, TN. Ted Timbul 215 has: Complete removing purp Weathers 12-4 Contrave logging 127 557 , Marry, sometimes horive high 1- neach millos.

unless begin steam cleaning Activities Schooled for the remainver. Rockers ! Remarring agripman of today incluse: some logging GAMMALDGGINA R-Z &R-4, AND The new A.H.T. project mgs Annives Foreshorn Ry. on-site At 1400 has Butch Branow-ste at 1245/100 145 hrs. Butch Byen & Monty go to neet uf so pacent property :33 hrs: Complete logging bole. owners to game site Access For Useo Gamma & resistivity as well as RFI mulling. well profile Interpret logal laul Lawopy Pal decides to test 3, n ternals 1435hro: Begin setting upot 2-2 - the three clannest sampshine Zines 1445 has! Begins logging 12-2 m 346 has Set up decom pad, then Calipen. TD of boning log is toke 15 mm had break. 1791 We cold only get the

hole is silled. pushe to 162' both The 16 20 bins: Bossin days of bogging IN 600- 12 150 to TD Working Get randy to Conwell R-IN the bottom of the Lob. Bearin logging Ades 1630 Hours. 15 rohy: Complete polypen log At R-4 to ren gamma And resistantly 1700 hos Begin buening Co 1530 has' Book Running Resistanty t resisting probe into Butch Byda & Monty toget a log Wo caliper from their meetings. on this hole because No pAecer testing is plannen for it. 1,05 how: Complete runs. . Upn this There is some difference Complete logging 17-4. INTE loop between wello TV-18 12-7. Begin Cleaning up Parce is neurospering his presen Zones 1815-620: Officialis fra 12-1 baked or the new puto.

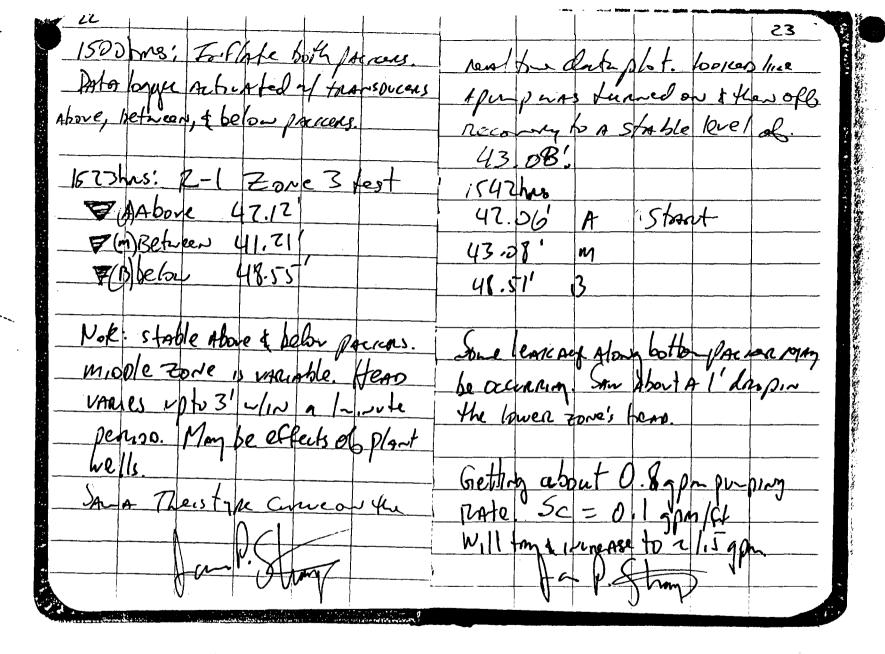
13 USDAY 4/16/91 Summary of Topay's Activities · Mos tosite 0716 hrs: S.S. on-site. No · Log wells 12-1, 12-2, ER-4 with one one site. S.S. leaves It resistanty. toolt breakfost, Kon wells 12-12/2-2 with caliper. Set-up for PACICER festing At 0745hrs: 1.5. on-s/te 070hrs: Weston on-site. PlannED Activities Pon Tomoncow; 0820 kns: EARTH DATA Folkson-sik PARICEN FEST IZ-L AT A MINIMUM PUNSONNEL ON-SITE: of 3 intervals. PACIEN 1854 12-2 (time servitted) J. Strayton - M315 P. CANSMY - Weston T. CORNUCT 1m/ J. Elsmen - Enagh Duta Tel. Turnbull

(ne Purpose Water Lavels (Tox) 10 DAN'S WEATHER L-7: 16.391 Connectly graness t, cool (5504), light 2-5 25.06 wins from west. High to neach mis 12-2 30,39 60's, w/ scushing. IZ: 35. 24. 29 R-4: 13'11" (13.916) Dailbas began se thing up ATRY to begin paccentest. Pressure transpucers 1071 has: Pow calibration Test Ane Set IN MW 3: 1-2 (shallow, (Agon) on Observation rells. Need to Well. 12-5 (NEAR CREEK); 12-2; I-2 replace DATA WEGGET IN WELL I-Z. (Intenface were): 144 107- toTD Zone1 Water levels in R-1 n/ parion inflated Using a Hearn + 2000 Dotor Longer Are beginning to stabilize. w/8 por gapocity # 42.80' bal - Above PACIER W 49.41 /2 below preman But wh Byen & Monty on site 0 0940 topportunit 1021 onl

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1235 tins: Photo of T.C. Chauring 90% recovery in - 10 minutes. vy// wast of minimum of 15 mins storacy tarion for punge before ending the First test water. 1245hro: 67.76 Volate paciones + ono fest @ 1308/ms. Sew D VOA set 57.71 rewen at shift blogger before to change presse 51.75 (5 sec Internals) 51.61 17-1 tone Z will dips be 51,46 ed tomorrow. It is brown 78-98' by Total projed: 18.9 nc/volu 1944 gals, 100 mins total proging Stated unleadered at 43.06



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to the low Plan nate heating up the pup 7142,78 AT pup shetopli 国内52.76 1722 hrs: In the for parameters. ₽B49.56 Need to recover to 44.0' for 90% 7.6 850 umhos Lecornes do 46" Farely ropally then get a lareling of the 1724 hrs: Collect 2 set of VOA's. Curve We me still seems A Frahatismin the noten level in this yore Alio 12 % rewry At 1758 1753 hrs. have some variations in a Hoarnt run obea night to get 1730 hrs: Prepare for necorry baccoping reports Convet shrtoff, of pups

WEDNESDAY 4/17/91 Begin cleaning upt preparing 0730/srs: J.S. on-site. Wester 1830 m: Off-site. on-site. 0820hrs: Dullows on-site. boday's Activities · Packer Kst (punpmg) Zones 1 TUNSONNEL ON-SIR .. J. STRAYTON-MIE \$3 IN MW 12-1. BONE 1 P. LANDRY - WESTON 15 from 102'+ T.D; Zono 3 15 T. Cornuer - " From 61-73 by J. ElSTNER - GARTH DATA, INC Planner Hetreites for Townow: T. Tranbull - " · Paque Test (purpos) Zone Z WERTHON: Overcast, 580F, 1,94t IN My R-1 From 78-98 61. during the day, high to neach 65%. · Set up AT 12-2 For Next Docum test.

Weston & J.S. discuss placement Planners Activities For Today: Payen test zono z" in well PACILLERS FOR R-Z. Discussion Focuses on King the packar test to determine Demos From R-1, steam dear the cornection between the becker Set-yp At 12-2 & lauren test Accomplished by Karfing A THANSOUCEL IN I-Z AND Purpose & PACKING of Zonci 1 the interface contact and purpose 0830 has: Earth Data begans A 38' Zone of interseded shales And somo stones, with Abotton preced. pulling paciens out of 12-1 to ADJUST PARMEN SPACING For the 1046 ps: Repare to whate porms. Done 2 test. Prendshow haterlands A- 43.12 Aspanys or home yesterday's 43.08 Dumper Has put into the one 43.12 STappen System

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Metcalf & Eddy Received 3/21/91

March 26, 1991

Ms. Sally Averill United States Environmental Protection Agency 230 South Dearborn Street Chicago, Illinois 60604

Re:

TES X, R05031 - EKCO Housewares Field Activities Report: March 20, 1991

Dear Ms. Averill:

Enclosed is one copy of the field notes for the RFI oversight activities at the EKCO Housewares site in Massillon, Ohio for Wednesday, March 20, 1991.

Personnel on-site during this period were Harold Byer and Tim Farrell of Roy F. Weston, Inc.; Jeff Burman of EKCO Housewares; 2-two man crews from Midwest Tank Testing Company; and Barry Nelson of Metcalf & Eddy.

Activities during this period consisted of testing the integrity of four underground storage tanks (USTs) located on the west side of the plant between the rear of the processing building and the railroad tracks. Midwest Tank Testing of Columbus, Ohio, used the "Acufit" system to evaluate the USTs. Because two of the tanks are normally empty, water was hauled in and used to fill the tanks for the test. The remaining two tanks contained processing mixtures presently used by the facility. The tanks were filled to the top by EKCO personnel under Midwest's direction.

Results of the tests indicated that all four USTs were tight with no leaks. It was initially thought that one of the process tanks was leaking slightly, but Midwest determined that it was due to temperature differences between the product in the tank and the product added to fill the tank. There was no loss of product volume, but instead an end leak in the testing system caused by the temperature differential. After the temperature equilibrated, the test was run in excess of one hour with no leaks detected.

If you have any questions, please feel free to contact either Jim Strayton at (614) 890-5501 or me at (312) 427-8752.

Sincerely,

METCALF & EDDY, INC

Denise Murk

**Environmental Scientist** 

Fred Norling cc:

Affiliates of Air & Water Technologies Corporation

## DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING Roadway of any Width. Side Slopes 1½ to 1. In the figure below: opposite 7 under "Cut or FIII" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or FIII" and under .1 read 16.7, the distance out from the side stake at left. Also, opposite 10 under "Cut or FIII" and under .1 read 16.7, the distance out from the side stake at left. Also, opposite 11 under "Cut or FIII" and under .1 read 16.7, the distance out from the side stake at left. Also, opposite 10 under "Cut or FIII" and under .1 read 16.7, the distance out from the side stake at left. Also, opposite 10 under "Cut or FIII" and under .1 read 16.7, the distance out from the side stake at left. Also, opposite 7 under "Cut or FIII" and under .1 read 16.7, the distance out from the side stake at left. Also, opposite 7 under "Cut or FIII" and under .1 read 16.7, the distance out from the side stake at left. Also, opposite 7 under "Cut or FIII" and under .1 read 16.7, the distance out from the side stake at left. Also, opposite 11 under "Cut or FIII" and under .1 read 16.7, the distance out from the side stake at left. Also, opposite 12 under "Cut or FIII" and under .1 read 16.7, the distance out from the side stake at left. Also, opposite 12 under "Cut or FIII" and under .1 read 16.7, the distance out from the side stake at left. Also, opposite 12 under "Cut or FIII" and under .1 read 16.7, the distance out from the side stake at left. Also, opposite 12 under "Cut or FIII" and under .1 read 16.7, the distance out from the side stake at left. Also, opposite 12 under "Cut or FIII" and under .1 read 16.7, the distance out from the side stake at left. Also, opposite 12 under "Cut or FIII" and under .1 read 16.7, the distance out from the side stake at left. Also, opposite 12 under "Cut or FIII" and under .1 read 16.7, the distance out from the side stake at left.

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Peninsular Publishing Company P.O. Box 5078 Tallahassee, FL 32314 (904) 576-4151 Barry R. Nelson Geologist Metcalf & Eddy, Inc.



An Air & Water Technologies Company 2800 Corporate Exchange Drive, Suite 250 Columbus, Ohio 43231 (614) 890-5501 FAX (614) 890-7421

IP Z

"Rite in the Rain"

The paper in this book has been treated by an exclusive chemical waterproofing process. Wet or dry, even the hardest pencil will produce a clean, sharp mark.

Stark Ambulance	(216) 837-9818	
Massillon Community Hospital	(216) 832-8761	Wednesday March 20, 1991
Fire	(216) 833-1051	weather: Sunny, breezy,
Police	(216) 830-1735	50 F, high to reach
Sally Averill	(312) 886-4439	
U.S. EPA RPM		Personnel Onsite!  Barry Nelson MiE
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		Between Jeff Burman Exco
	 ! 	2-2 man Crus Michael
		Michaest.
		Midwest Tank Kesting Co.
	 	Columbus, OH (24) 224-4560

Tank is filled of Ho PHOTO 2 Arrive onside. B. Nelson 1015 because it hasn't been used met and discussed daily Both plotes 1:2 yet. plans w/ Weston employees. at now of They are using an building next to RR times "Acutit" system to test Overview PHOTO. Computer PADTO 3 the tanks. is inside Mides Con. 1030 Begin tosting tanks. Weston Michaest has 2 vans expects to be clone entirely 1155 (4 people) cloing 2 tonks this afternoon. each per run. 1148 Still running tests. So PHOTO 4 Second Michael Van for the tanks appear testing add 2 + Andes. tight according to Molwest Stopped yest on water-tilled 1240 tanks. Both were ok. PHOTOI IBIT toluene, etc mix All tanks are of except 1428 tank w/ test apparatus solvent tank object to the factory entrance

The volume is steady but 1615 B. Nelson offsite temperature of the product they added to top of the tank was higher so there Summary is some end leak The testing system. We All tanks (4), tested by have to want, for system Midwest Tank Testing were to equilibrate found to be fight with no End test on final selvent 1540 Apparent leaks. The data tank - results are ok. will accompany the report Western has been given to be submitted in a few draft printouts of results wedes. and will submit them with the report in 20 few weeks. "After" photo of Atora5